# **Appendix 9: Model fit statistics**

## A. Changes in PTSD symptom scores between baseline and treatment endpoint

Convergence was satisfactory for both fixed and random effects after 20,000 iterations, and the models were compared using results based on samples from a further 40,000 iterations on two chains. The random effects model provided a better fit over the fixed effect model; however, the between-trial standard deviation (posterior median sd 0.93, 95% CrI 0.77 to 1.15) was high when compared with the size of the intervention effect estimates.

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| --- | --- | --- | --- |
| Model | Between Study Heterogeneity - Standard Deviation | Residual deviancea | DICb |
| Posteriormean | Posteriormedian | 95% CrI |
| Fixed effect - consistency | - | 893.4 | 1381.00 |
| Random effects - consistency | 0.94 | 0.93 | 0.77 - 1.15 | 151.6 | 695.68 |
| Random effects - inconsistency | 1.03 | 1.02 | 0.82 - 1.29 | 151.1 | 697.11 |
| a Posterior mean residual deviance compared to 151 total data pointsb Deviance information criteria (DIC) – lower values preferredCrI: credible intervals |

## B. Changes in PTSD symptom scores between baseline and 1-4 month follow-up

Convergence was satisfactory for both fixed and random effects after 20,000 iterations, and the models were compared using results based on samples from a further 40,000 iterations on two chains. The random effects model provided a better fit over the fixed effect model; however, moderate-to-high between trial heterogeneity (posterior median sd 0.59, 95% CrI 0.38 to 0.95) was observed relative to the size of the intervention effect estimates.

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| --- | --- | --- | --- |
| Model | Between Study Heterogeneity - Standard Deviation | Residual deviancea | DICb |
| Posterior mean | Posterior median | 95% CrI |
| Fixed effect – consistency | - | 136.00 | 300.24 |
| Random effects - consistency | 0.61 | 0.59 | 0.38 - 0.95 | 57.36 | 234.62 |
| Random effects - inconsistency | 0.58 | 0.56 | 0.33 - 1.00 | 57.26 | 235.08 |
| a Posterior mean residual deviance compared to 57 total data pointsb Deviance information criteria (DIC) – lower values preferredCrI: credible intervals |

## C. Dichotomous remission at treatment endpoint

Convergence was satisfactory for both fixed and random effects after 20,000 iterations, and the models were compared using results based on samples from a further 40,000 iterations on two chains. The random effects model provided a better fit over the fixed effect model; however, high between trial heterogeneity (posterior median sd 1.05, 95% CrI 0.60 to 1.68) was observed relative to the size of the intervention effect estimates.

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| --- | --- | --- | --- |
| Model | Between Study Heterogeneity - Standard Deviation | Residual deviancea | DICb |
| Posteriormean | Posteriormedian | 95% CrI |
| Fixed effect - consistency | - | 120.10 | 410.60 |
| Random effects - consistency | 1.07 | 1.05 | 0.60 - 1.68 | 79.29 | 387.20 |
| Random effects - inconsistency | 1.05 | 1.01 | 0.54 - 1.76 | 78.95 | 388.55 |
| a Posterior mean residual deviance compared to 76 total data pointsb Deviance information criteria (DIC) – lower values preferredCrI: credible intervals |